

IN THE CLAIMS

Please add claims 27-37 as follows.

27. A motion analyzer configured to implement a method of calculating displacement vectors corresponding to respective reference image regions of a reference frame of an image-sequence, comprising the steps of:

optimizing a function whose value depends on a closeness in value of each of said reference image region displacement vectors to values of adjacent ones of said reference image region displacement vectors;

said function being more sensitive to said closeness in value when an image property of said each of said reference region displacement vectors is close in value to said adjacent ones and less sensitive to said closeness in value when an image property of said each of said reference region displacement vectors is close in value to said adjacent ones.

28. A motion analyzer as in claim 27, wherein said function value depends on a similarity of said reference regions to respective target regions.

29. A motion analyzer as in claim 27, wherein said image property includes color.

30. A motion analyzer as in claim 27, wherein said image property includes an average color.

31. A motion analyzer as in claim 30, wherein said function value depends on a similarity of said reference regions to respective target regions.

32. A motion analyzer as in claim 27, wherein said image property includes a color normalized by an estimate of color variation characteristic of said each of said reference regions and said adjacent ones.

33. A motion analyzer as in claim 27, wherein said function is a combination of a function whose value depends on a similarity of said reference regions to respective target regions and a function whose value depends on a closeness in value of each of said reference image region displacement vectors to values of adjacent ones of said reference image region displacement vectors.

34. A motion analyzer as in claim 33, wherein said image property includes color.

35. A motion analyzer as in claim 33, wherein said image property includes an average color.

36. A motion analyzer as in claim 33, wherein said image property includes a color normalized by an estimate of color variation characteristic of said each of said reference regions and said adjacent ones.

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